

Amendments to the Claims

Please amend the claims of the present application as set forth below.

Claims 1 – 37 were originally filed.

Claims 1, 2, 13, 14, 25, 26, and 27 are cancelled without prejudice.

Claims 3 – 12, 15 – 24, and 28 – 37 are pending.

1 – 2. (cancelled)

3. (currently amended) ~~The method as recited in Claim 2, A~~
method for controlling access to a server device by at least one client device that is
operatively coupled to the server device through at least one interconnecting
network, the method comprising:

causing a user-side portion of a network server logic within the server
device to selectively specify at least one network from which the user-side portion
would accept client device information;

causing a kernel-side portion of the network server logic to accept the client
device information only if the client device information has been provided via the
specified network; and

if the client device information has not been provided via the specified
network, causing the kernel-side portion to reject the client device information and
notify the client device in a manner that identifies the rejection, wherein the
kernel-side portion notifies the client device using at least one message selected
from a group of messages comprising a TCP reset message and an ICMP
destination unreachable message, as applicable.

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2 4. (currently amended) The method as recited in Claim ~~[[1]]~~ 3, further
3 comprising:

4 providing a communication socket for use by the kernel-side portion; and
5 causing the kernel-side portion to compare client device information
6 received on the communication socket to the specified network.
7

8 5. (currently amended) The method as recited in Claim ~~[[1]]~~ 3, wherein
9 causing the user-side portion to selectively specify at least one network from
10 which the user-side portion would accept the client device information, further
11 includes causing the user-side portion to selectively specify a plurality of networks
12 from which the user-side portion would accept the client device information; and
13 wherein causing the kernel-side portion to accept the client device
14 information only if the client device information has been provided via the
15 specified network, further includes causing the kernel-side portion to accept the
16 client device information only if the client device information has been provided
17 via at least one of the specified plurality of networks.
18

19 6. (currently amended) The method as recited in Claim ~~[[1]]~~ 3, wherein
20 causing the user-side portion to selectively specify the at least one network from
21 which the user-side portion would accept the client device information further
22 includes having the user-side portion specify at least one local network interface.
23

24 7. (currently amended) The method as recited in Claim ~~[[1]]~~ 3, wherein
25 causing the user-side portion to selectively specify the at least one network from

1 which the user-side portion would accept the client device information further
2 includes having the user-side portion specify at least one IP address.
3

4 8. (currently amended) The method as recited in Claim [[1]] 3, wherein
5 the network server logic is operatively configured to support at least one client-
6 server based process selected from a group of processes comprising a file-sharing
7 communication process, a TCP-based communication process, a UDP-based
8 communication process, a HTTP-based communication process, a digital media
9 based communication process, a DNS-based communication process, and a
10 database related communication process.
11

12 9. (currently amended) The method as recited in Claim [[1]] 3, wherein
13 the user-side portion includes an application-programming interface (API)
14 operatively configured to allow an application to specify the at least one network
15 from which the user-side portion would accept the client device information.
16

17 10. (original) The method as recited in Claim 9, wherein the API is
18 further operatively configured to allow the application to specify a listing of
19 networks from which the user-side portion would accept the client device
20 information.
21

22 11. (original) The method as recited in Claim 10, wherein the API is
23 further operatively configured to allow the application to selectively modify the
24 listing of networks from which the user-side portion would accept the client device
25 information.

12. (currently amended) The method as recited in Claim [[1]] 3, wherein the kernel-side portion includes a TCP/IP driver.

13 - 14. (cancelled)

15. (original) ~~The computer-readable medium as recited in Claim 14~~
A computer-readable medium having computer-executable instructions for performing steps comprising:

causing a user-side portion of a network server logic within a server device to selectively specify at least one network from which the user-side portion would accept client device information;

causing a kernel-side portion of the network server logic to accept the client device information only if the client device information has been provided via the specified network; and

if the client device information has not been provided via the specified network, causing the kernel-side portion to reject the client device information and notify the client device in a manner that identifies the rejection, wherein the kernel-side portion notifies the client device using at least one message selected from a group of messages comprising a TCP reset message and an ICMP destination unreachable message, as applicable.

1 16. (currently amended) The computer-readable medium as recited in
2 Claim ~~[[13]] 15~~, further comprising computer-executable instructions for:
3 providing a communication socket for use by the kernel-side portion; and
4 causing the kernel-side portion to compare client device information
5 received on the communication socket to the specified network.

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7 17. (currently amended) The computer-readable medium as recited in
8 Claim ~~[[13]] 15~~, wherein causing the user-side portion to selectively specify at
9 least one network from which the user-side portion would accept the client device
10 information, further includes causing the user-side portion to selectively specify a
11 plurality of networks from which the user-side portion would accept the client
12 device information; and

13 wherein causing the kernel-side portion to accept the client device
14 information only if the client device information has been provided via the
15 specified network, further includes causing the kernel-side portion to accept the
16 client device information only if the client device information has been provided
17 via at least one of the specified plurality of networks.

18
19 18. (currently amended) The computer-readable medium as recited in
20 Claim ~~[[13]] 15~~, wherein causing the user-side portion to selectively specify the at
21 least one network from which the user-side portion would accept the client device
22 information further includes having the user-side portion specify at least one local
23 network interface.

1 19. (currently amended) The computer-readable medium as recited in
2 Claim ~~[[13]]~~ 15, wherein causing the user-side portion to selectively specify the at
3 least one network from which the user-side portion would accept the client device
4 information further includes having the user-side portion specify at least one IP
5 address.

6
7 20. (currently amended) The computer-readable medium as recited in
8 Claim ~~[[13]]~~ 15, wherein the network server logic is operatively configured to
9 support at least one client-server based process selected from a group of processes
10 comprising a file-sharing communication process, a TCP-based communication
11 process, a UDP-based communication process, a HTTP-based communication
12 process, a digital media based communication process, a DNS-based
13 communication process, and a database related communication process.

14
15 21. (currently amended) The computer-readable medium as recited in
16 Claim ~~[[13]]~~ 15, wherein the user-side portion includes an application-
17 programming interface (API) operatively configured to allow an application to
18 specify the at least one network from which the user-side portion would accept the
19 client device information.

20
21 22. (original) The computer-readable medium as recited in Claim 21,
22 wherein the API is further operatively configured to allow the application to
23 specify a listing of networks from which the user-side portion would accept the
24 client device information.

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1 23. (original) The computer-readable medium as recited in Claim 22,
2 wherein the API is further operatively configured to allow the application to
3 selectively modify the listing of networks from which the user-side portion would
4 accept the client device information.

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6 24. (currently amended) The computer-readable medium as recited in
7 Claim ~~[[13]]~~ 15, wherein the kernel-side portion includes a TCP/IP driver.

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9 25 - 27. (cancelled)

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11 28 (currently amended) ~~The apparatus as recited in Claim 27; An~~
12 apparatus comprising:

13 memory; and

14 network server logic, operatively coupled to the memory and configurable
15 to support at least one client-server communication session, the network server
16 logic having:

17 a user-side portion that is configured to selectively specify at least one
18 network from which the user-side portion would accept client device information,
19 and

20 a kernel-side portion that is configured to accept the client device
21 information only if the client device information has been provided via the
22 specified network,

23 wherein if the client device information has not been provided via the
24 specified network, the kernel-side portion is further configured to reject the client
25 device information and notify the client device in a manner that identifies the

1 rejection, and wherein the kernel-side portion is further configured to notify the
2 client device using at least one message selected from a group of messages
3 comprising a TCP reset message and an ICMP destination unreachable message, as
4 applicable.

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6 29. (currently amended) The apparatus as recited in Claim [[26]] 28,
7 further comprising:

8 a communication socket for use by the kernel-side portion during the
9 communications session, and wherein the kernel-side portion is further configured
10 to compare client device information received on the communication socket to the
11 specified network.

12
13 30. (currently amended) The apparatus as recited in Claim [[26]] 28,
14 wherein the user-side portion is further configured to selectively specify a plurality
15 of networks from which the user-side portion would accept the client device
16 information; and

17 wherein the kernel-side portion is further configured to accept the client
18 device information only if the client device information has been provided via at
19 least one of the specified plurality of networks.

20
21 31. (currently amended) The apparatus as recited in Claim [[26]] 28,
22 wherein the user-side portion is further configured to specify at least one local
23 network interface.

1 32. (currently amended) The apparatus as recited in Claim [[26]] 28,
2 wherein the user-side portion is further configured to specify at least one IP
3 address.

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5 33. (currently amended) The apparatus as recited in Claim [[26]] 28,
6 wherein the communication session is further configured to support at least one
7 communication process selected from a group of communication processes
8 comprising a file-sharing communication process, a TCP-based communication
9 process, a UDP-based communication process, a HTTP-based communication
10 process, a digital media based communication process, a DNS-based
11 communication process, and a database related communication process.

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13 34. (currently amended) The apparatus as recited in Claim [[26]] 28,
14 wherein the user-side portion includes:

15 an application-programming interface (API) operatively configurable to
16 allow an application to specify the at least one network from which the user-side
17 portion would accept the client device information.

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19 35. (original) The apparatus as recited in Claim 34, wherein the API
20 is further operatively configurable to allow the application to specify a listing of
21 networks from which the user-side portion would accept the client device
22 information.

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24 36. (original) The apparatus as recited in Claim 35, wherein the API
25 is further operatively configurable to allow the application to selectively modify

1 the listing of networks from which the user-side portion would accept the client
2 device information.

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4 37. (currently amended) The apparatus as recited in Claim ~~[[26]]~~ 28,
5 wherein the kernel-side portion includes a TCP/IP driver.
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